## IN THE CLAIMS:

Please amend claims 25, 33, and 39 as follows:

25. (Three times amended) A pre-anneal intermediate structure in the formation of an isolation structure for a semiconductor device, comprising:

a semiconductor substrate <u>free of field oxide structures and</u> having a first surface and a second surface, <u>said first surface opposing said second surface</u>;

at least one p-well and at least one n-well on said substrate first surface;

at least one p-type area within said at least one n-well;

at least one n-type area within said at least one p-well; and

a substantially dopant-free, uninterrupted diffusion barrier layer extending over said first surface and said second surface of said semiconductor substrate.

33. (Amended) A pre-anneal intermediate structure in the formation of an isolation structure for a semiconductor device, comprising:

a semiconductor substrate <u>free of field oxide structures and</u> having a first surface and a second surface, said first surface opposing said second surface;

at least one p-well and at least one n-well on said substrate first surface;

at least one doped area within at least one of said at least one n-well and said at least one p-well;

a substantially dopant-free, uninterrupted diffusion barrier layer extending over said first surface and said second surface of said semiconductor substrate.

39. (Amended) A pre-anneal intermediate structure in the formation of an isolation structure for a semiconductor device, comprising:

a semiconductor substrate <u>free of field oxide structures and</u> having a first surface and a second surface, said first surface opposing said second surface;

at least one first doped area on said substrate first surface;



at least one second, differently doped area within said at least one first doped area; and a substantially dopant-free, uninterrupted diffusion barrier layer extending over said first surface and said second surface of said semiconductor substrate.

## Please add the following new claims:

A pre-anneal intermediate structure useful in the formation of electrical device isolation structures, comprising:

a semiconductor substrate that is free of field oxide structures and includes a first surface and a second surface, said first surface opposing said second surface;

at least one p-well and at least one n-well defined on said first surface of said substrate;

at least one p-type area defined within said at least one n-well;

at least one n-type area defined within said at least one p-well; and

- a substantially dopant-free, uninterrupted diffusion barrier layer extending over said first surface and said second surface, said substantially dopant-free, uninterrupted diffusion barrier layer encapsulating said semiconductor substrate.
- 47. The pre-anneal intermediate structure of claim 46 further comprising a layer of oxide between said first surface and said substantially dopant-free, uninterrupted diffusion barrier layer.
- 48. The pre-anneal intermediate structure of claim 46, wherein said substantially dopant-free, uninterrupted diffusion barrier layer is silicon nitride.
- 49. The pre-anneal intermediate structure of daim 46, wherein said substantially dopant-free, uninterrupted diffusion barrier layer is silicon exymitride.